

AACATTACATACAGCCAGTGTAGATGACACATTGATTAAAAAAATAGTCGAGTGCTTG
ATCTGTGATTCAAATATCGAACCAAAAGGACTGCATTAGTGTGGGAGTTAAAGTGTGTTGT
GAGAATAGACCAACGACCATGCAAGATGGCGGGTGACGCCCTGCATACTGGTGACGGTGCTCTC
ACCTTCGCAACATCAGTTTGGCAAGAAACAACATCGTCGAGATGTTACTACATGACTGACG
CTATTCCGAGGGAACCGAAACCGGATGATTGCCTGACTTAGAATGGACTGGTGATGGACCGA
CTGGCCTTGATCCC GGCTGAGCCAAGAGACGACGTGTGCATAAACGGCTGGTACCCACAAC
ACCAGCACTCTCGGCACCACATCATCCACATGGAAGAGGAGATCGAGGGAGATGTTGCTA
TCGCTAAACTTAACATGATGGTTCTGGAACCCCCAGAAATTGTC CAGCCGATGGTTATAGGATC
TTCTAACCTGCTAAGTCCAGAGATCCGGAATGAAAACGGGGCGTGGTACCTTATATAACCAAT
AGGCAAGATTATGAAACACCAACAATGCGTCGGTATACATTGACGATAACGACCCATCGTCAGGGT
GCTAGACGCTTGCCAAGTGCCGGATTGGGGAGCCTGACTAACAGACTGCGTTACCAAGTG
TCAGACGAAGATGGGAGGCTTAGTATCGAGCCC ATGACATTCCGCCTCACATCAGACCGTGAAG
ACGTACAGATATTCTATGTGGAGCCAGCTCACATTACTGGTATTGGTTAACATGCAAATTAC
TATCGGTATCCTATCAGCGCTTAACTTCGAAAGCAACCCGCTGCACATCTTCAAATCACTGCT
TTGGACTCCTGGCCAACAACCACAGGTGACGGTGATGGTGCAAGTCCAGAACATGTGGAACACC
GACCGCCCGATGGATGGAAATCTCGCAGTCCAGCAGTTGACGAGATGACGGAGCAGCAATT
CCAGGTGCGGCCATCGACGGAGACACTGGCATCGGAAAGCTATAACTATACCTCGAGACA
GATGAGGAAGAAGATTGTTCTCATCGAAACACTCCGGCGGCCATGACGGAGCCATCTCA
GCACTGCCATGATTGATGTGGATAGGCTCCGGCGAGATGTCTCAGACTGTCCTGGTGGCATA
CAAGTACGACAATGTGTCTCGCCACCCGACACCCGTCGTGATCATAGTCATGACATCAAC
AACAAAGAAACCCCAACCGCTGCAAGATGAGTACACAATCTCCATAATGGAAGAAACTCCACTGT
CGCTGAATTGCTGAACCTTTGGTTCTATGATGAAGATTGATCTACGCACAATCCTGGT
GGAAATACAAGGCGAGAACCCCTCCAGCGTAGAGCAAGCGTTTATATTGCGCCACCGCAGGC
TTCCAGAACAGACATTGCCATAGGGACTCAAGATCACCGAATGCTGGATTATGAGGATGTT
CTTCCAAAACATCAAGCTCAAGGTAATAGCAACGGACCGTGACAATACCAATTACTGGAGT
CGCGGAAGTCAACGTGAAACCTGATTAATTGGAACGACGAGGAGCCGATTTGAGGAAGACCA
CTCGTTGTCAAGTCAAGGAGACTGTACCCAAGGACTATCACGTCGGCAGACTGAGGGCTCACG
ACCGGGACATAGGAGACAGCGTTGCATTCCATCTGGAAATGCGAATACATTGAGAAT
CGACGAAGAAACTGGCGACATATACGTAGCTATTGATGACGCGTTGATTATCACAGACAGAAT
GAATTAAACATACAAGTCGCGCTCAGGACACCACATGTCGGAGCCAGAGTCCAGGCATACAGCG
CTGCTCAGCTGGTCATAGAACTCGAGGACGTCAACAACACACCTCTACTCTGAGGCTGCCTCG
CGTAAGTCCGTCTGTAGAAGAGAATGTGCCAGAGGGTTGAAATCAACCGGGAGATAACCGCC
ACGGACCCCTGACACCACAGCATACTGCAGTTGAAATAGATTGGACACATCCTTGCCACTA
AACAGGGCGTGATACCAATCCAATAGAGTCCACGGATGCGTGGATATAGAAACCATCTTCCC
AAACCCAGCCGACACCAGAGAGAGGGCTGGGGCGAGTGGTAGCGAAGGGGATCCGCCATAACGTG
ACCATCCATTGAAAGAGATTGATGAATCTACCTCACCGTAATAATAATAGATATGAACGACAAC
ATGACGGACGAGATTATGATGAATCTACCTCACCGTAATAATAATAGATATGAACGACAAC
GCCTATCTGGCGTCTGGTTCTGAACCAGACCTCAGTATTGAGGCGATCATCTACCGGC
GTCGTCACTGGGTCCGTACTCGCTACAGACATTGATGGCCCACCTTACAACCAAGTCCGGTACA
CCATTATCCCCCAGGAAGATACTCCTGAAGGTCTAGTCCAGATACATTGTTACGGGTCAAAT
TACAGTTGATGAGAATGGTCAATCGACGCTGATATTCCACCTCGTTGGCACCTCAACTACAC
GTTATAGCCAGCGACAAATGTTCTGAAGAAAATGAAGAGAACTGTCCCCGGATCCAGTGT
GGGATACTCTGCGCGACAATGTAATTACATCGTGGACATAAACACAAGGTCCCAGCAGA
CCTCAGTCGATTCAACGAAACGGTGACATTATGAAAATGCACCCGATTCACGAACGTGGTC

Figure 1A

AAGATATACTCCATCGACGAAGACAGAGACGAAATATATCACACGGTGCAGTACCAATT
ATGCTGTGAACCAAACGGCTGCGAGACTTCTCGCCATAGACCTGGATTAGGCCAGGTGTACGT
GGAGAACACCAACAATGAGCTCCTGGATCGGGACAGAGGCGAAGACCAACACAGGATATTCAATT
AACCTCATTGACAACCTTTATAGCGAAGGGAGATGGAAATAGAAATGTAAACACTACAGAGGTGC
TGGTGATACTATTAGATGAGAATGACAACGCTCCTGAATTGCCGACTCCAGAAGAGCTGAGTTG
GAGCATTCCGAGGATTACAAGAGGGTATAACACTCGATGGCGAAAGCGATGTGATATACGCA
CCGGATATAGACAAAGAGGACACGCCAAACTCTCACGTTGGCTACGCAATCCTGGCCATGACAG
TCACCAATAGAGACCTGGACACTGTTCCGAGACTTCTCAACATGCTGTCGCCAACACGTAAC
CGGATTCCCTCCAGACAGCAATGCCTTGAGAGGATATTGGGGACTTACGATATAAGTGTACTG
GCGTCGACCACGGTATTCCCTCAGCAGATATCTCATGAGGTGTATGAATTGGAAATTGACCTT
ACAATTACAATCCTCCTCAGTTCTGAATCCGGGACGATTCTACGACTGGCTTGGGA
ACGCGCAGTGGTAAATAATGTTGTCATTGTAAACGGTAGCCGTTAGACAGGATAACAAGCA
ATTGACGACGATGGTCTTGATGCTGGCGTGGTACTTCGATATTGTTGGAGATGCTGATGCGT
CAAACACTTCAGAGTAAATAATGATGGCGACAGCTTGGAACCTTGTGACACAGGCGCT
TCCTGAGGAAGGCAAGGAATTGAGGTTACCATCCGGCTACAGACGGCGAACAGAACCTCGA
TCATATTCAACAGACTCCACTATAAACAGTCCTCTCGACTTGGGTGATCCGATCTTC
AAGATAAACACTTACTCAGTAGCATTGAAAAAGAGGTTGGCTTGACTGAGAGGTTCTCGCT
CCCACATGCAGAGGACCTAACGAAACAAACTCTGCACTGACGACTGTCACGATATTACTACAGG
ATCTTGGTGGTGGATTACGAGCCATTGACCTGGACCCGGTGACGAACGTGATCTCCTGA
AATCAGAACTAGACCGGGAGACCACTGCTACGCATGTGGTGCAAGTGGCAGCCAGTAATTGCGC
CACAGGAGGCGGAATACCACTCCCTGGGTCTTCTCACCGTCACTGTCACTGTACGAGAAGCG
GATCCACGGCCTGTGTCAGCAGCGTCTGTACACGGCTGGCATTCCACTCCGATAACATCA
ACAGGGAACTACTCACCGTTCGCAACTCATTCCAAAACGCACAATTGACATATAACATCGA
AGACGGTTCTATGGCGGTGGACTCCACTCTGGAAAGCCGTCAAGGACTCGGCGTCCATCTGAAC
GCGCAGACCGCGTCCTCATACTGAGGATAAACCTACTGCCAGCATGCAGGGCATTTGAGT
TCAACGTCATCGCTACTGACCCAGATGAGAAGACAGATA CGG CAGAGGTGAAAGTCTACCTCAT
TTCATCCAAAATAGGGTGTCCCTCATATTCTGAACGATGTGGAGACGGTTGAGAGTAACAGA
GACTTATCGCAGAACGTTCAAGCGTTGGCTCAACATGACCTGCAATATAGATCAGGTGCTGC
CGGGCACCAACGACGCCGGGTGATTCAAGGAGGCCATGGCGGAAGTCCATGCTCACTCATACA
GGATAAACATCCCTGTGAGCGCCGACAGTATTGAAGAGCTTCGCACTGACACTCAGCTGCTGCGC
TCCGTCCAAGGTGTGTTGAACCAACGGCTGTTGGCTCAACATGACCTGCAATATAGATCAGGTGCTGC
CTGATCTCGGCACTGCCGGCGTGCAGATCACCATCTATGTGCTAGCCGGTTGTCAGCCATCCT
TGCCTCTGTGCCTATTCTGCTCATCACATTCACTGAGGACCCGAGCTCTGAACCGCCGT
TTGGAAGCACTGTCGATGACGAAATACGGCTCGGTGGATTGGCTGAACCGAGTGGGATAG
CGGCCCGAGGAACCAACAAACACGCCATCGAAGGCTCCAACCCCATCTGGAACGAGCAGATCAA
GGCCCCGGACTTCGATGCCATCAGTGACACATCTGACGACTCTGATCTAATCGGCATCGAGGAT
AGCCTGCAGGGAGACTTAGAAGAGAAAAGGGCAGACAAAGCAGTAGATGCCTGGTAAAAAGC
TGAAGAAGAACGATGGAGGCATGGGGAAATACGAATTCAAGGCCTCTCGAGCCTCTAGAACTAT
CGTGAGTCGTATTACGTATATCCAGACATGATGAGATACTGATGAGTTGGACAAACCGCAA
CTAGAATGCAGTGAAAAATGCTTATTGTTGAAATTGTGATGCTATTGCTTATTGGAA
CCATTATAAGCTGCAATAAACAGTTAACATCATCAATTGCATTCAATTTCAGGTTCA
GGGGGAGGTGTGGGAGGCTATCC

Figure 1B

SIG

1 MAGDACILVT VLLTFATSVF GQETTSSRCY YMTDAIPREP KPDDLPDLEW
CR1 →
51 TGGWTDWPLI PAEPRDDVCI NGWYPQLTST SLGTIIIHME EEIEGDVAIA
101 KLNYYDGSGTP EIVQPMVIGS SNLLSPEIRN ENGAWYLYIT NRQDYETPTM
CR2 →
151 RRYTFDVRVP DETRAARVSL SIENIDDNDP IVRVLDACQV PELGEPRLTD
201 CVYQVSDEDG RLSIEPMTFR LTSRDREDVQI FYVEPAHITG DWFNMQITIG
CR3 →
251 ILSALNFESN PLHIFQITAL DSWPNTHTVT VMVQVNVEH RPPRWMEIFA
301 VQQFDEMTEQ QFQVRAIDGD TGIGKAIHYT LETDEEDLF FIETLPGGHD
351 GAIFSTAMID VDRLRRDVFR LSLVAYKYD̄ VSFATPTPVV IIVNDINNKK
CR4 →
401 PQPLQDEYTI SIMEETPLSL NFAELFGFYD EDLIYAQSLV EIQGENPPGV
451 EQAFYIAPTA GFQ̄QTFAIG TQDHRLMDYE DVPFQNIKLK VIATDRDNT̄
CR5 →
501 FTGVAEVNVN LINWNDEEPI FEEDQLVVKF KETVPKDYHV GRLRAHDRDI
551 GDSVVHSILG NANTFLRIDE ETGDIYVAID DAFDYHRQNE FNIQVRAQDT
CR6 →
601 MSEPESRHTA AAQLVIELED VNNTPPTLRL PRVSPSVEEN VPEGFEINRE
651 ITATDPDTTA YLQFEIDWDT SFATKQGRDT NPIEFHGCVD IETIFPNPAD
701 TREAVGRVVA KGIRHNVTIH FEEFEFLYLT VRVRDLHTDD GRDYDESTFT
CR7 →
751 VIIIDMNDNW PIWASGFL̄Q TFSIRERSST GVVIGSVLAT DIDGPLYNQV
801 RYTIIPQEDT PEGLVQIHFV TGQITVDENG AIDADIPPRW HL̄NYTVIASD
CR8 →
851 KCSEENEENC PPDPVFWDTL RDNVINIVDI NNKVPAADLS RF̄NETVYIYE
901 NAPDFTNVVK IYSIDEDRDE IYHTVRYQIN YAVNQRLRDF FAIDLDSGQV
951 YVENTNNELL DRDRGEDQHR IFINLIDNFY SEGDGCRNV̄ TTEVLVILLD
CR9 →
1001 ENDNAPELPT PEELSWSISE DLQEGITLDG ESDVIYAPDI DKEDTPNSHV
1051 GYAILAMTVT NRDLDTVPRL LNMLSPN̄VT GFLQTAMPLR GYWGTYDISV
1101 LAFDHGIPQQ ISHEVYELEI RPYNYNPPQF VFPESGTILR LALERAVVNN

Figure 2A

CR10 →
1151 VSLVNGDPL DRIQAIDDDG LDAGVVTFDI VGDADASNYF RVNNNDGDSFG
1201 TLLLTQALPE EGKEFEVTIR ATDGGTEPRS YSTDSTITVL FVPTLGDPIF
CR11 → MBF
1251 QDNNTYSVAFF EKEVGLTERF SLPHAEDPKN KLCTDDCHDI YYRIFGGVDY
1301 EPFDLDPVTN VIFLKSELDR ETTATHVVQV AASNSPTGGG IPLPGSLLTV
CR12 →
1351 TVTVREADPR PVFEQRLYTA GISTSDNINR ELLTVRATHS ENAQLTYTIE
1401 DGSMAVDSTL EAVKDSAFHL NAQTGVLIR IQPTASMQGM FEFNVIATDP
→ MPD
1451 DEKTDTAEVK VYLISSQNRV SFIFLNDVET VESNRDFIAE TFSVGFNMTC
LZ
1501 NIDQVLPGTN DAGVIQEAMA EVHAHFIQDN IPVSADSIEE LRSDTOLLRS
1551 VQGVLNQRL VLNDLVTGVS PDLGTAGVQI TIYVLAGLSA ILAFLCLILL
→ CYT
1601 ITFIVRTRAL NRRLEALSMT KYGSVDSGLN RVGIAAPGTN KHAIEGSNPI
1651 WNEQIKAPDF DAISDTSDDS DLIGIEDSLQ GDLEEKRADK AVDALVKKLK
1701 KNDGAMGEYE FKASRASRTI VSRITYIQT.

Figure 2B

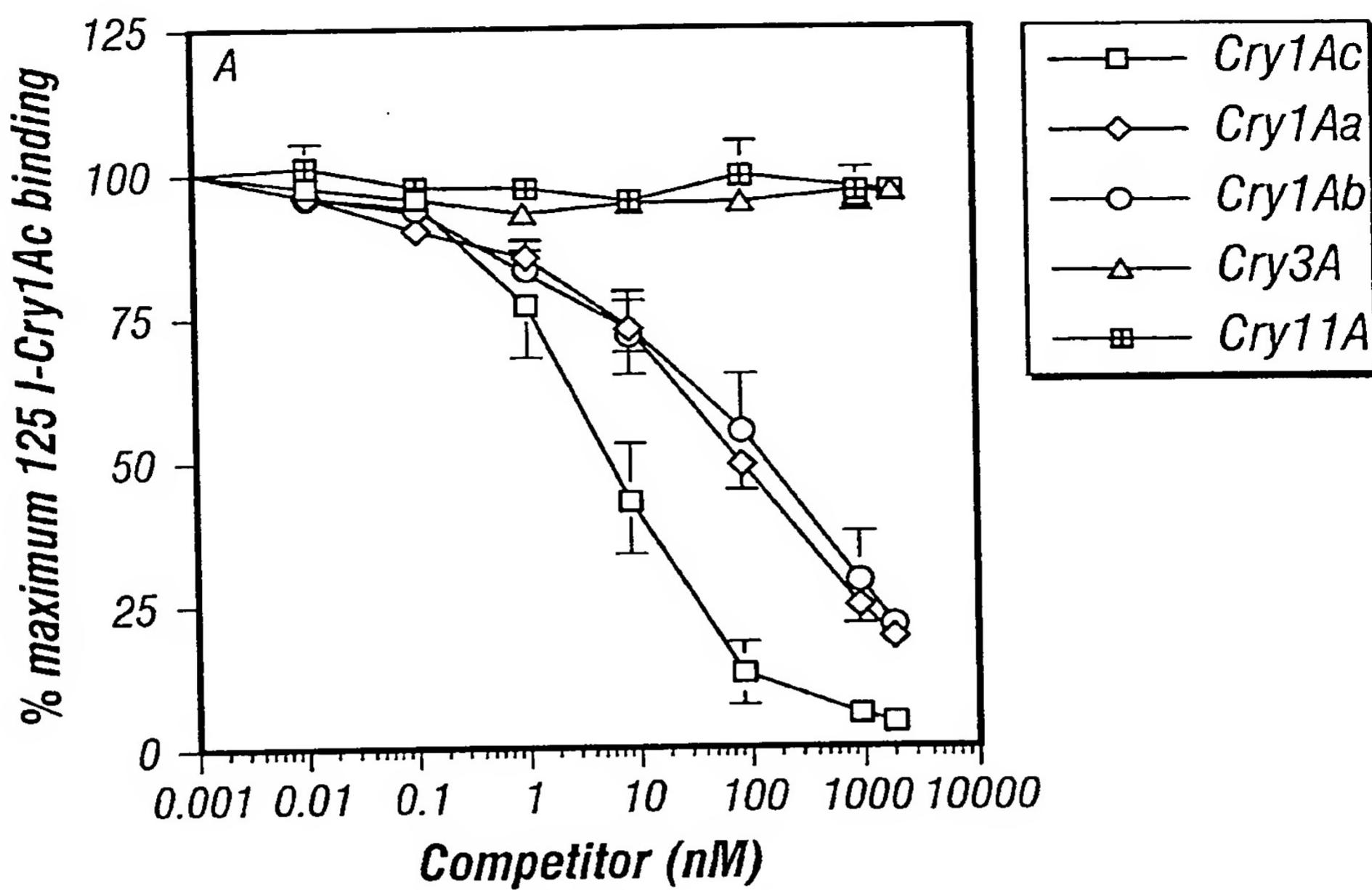


FIG. 3A

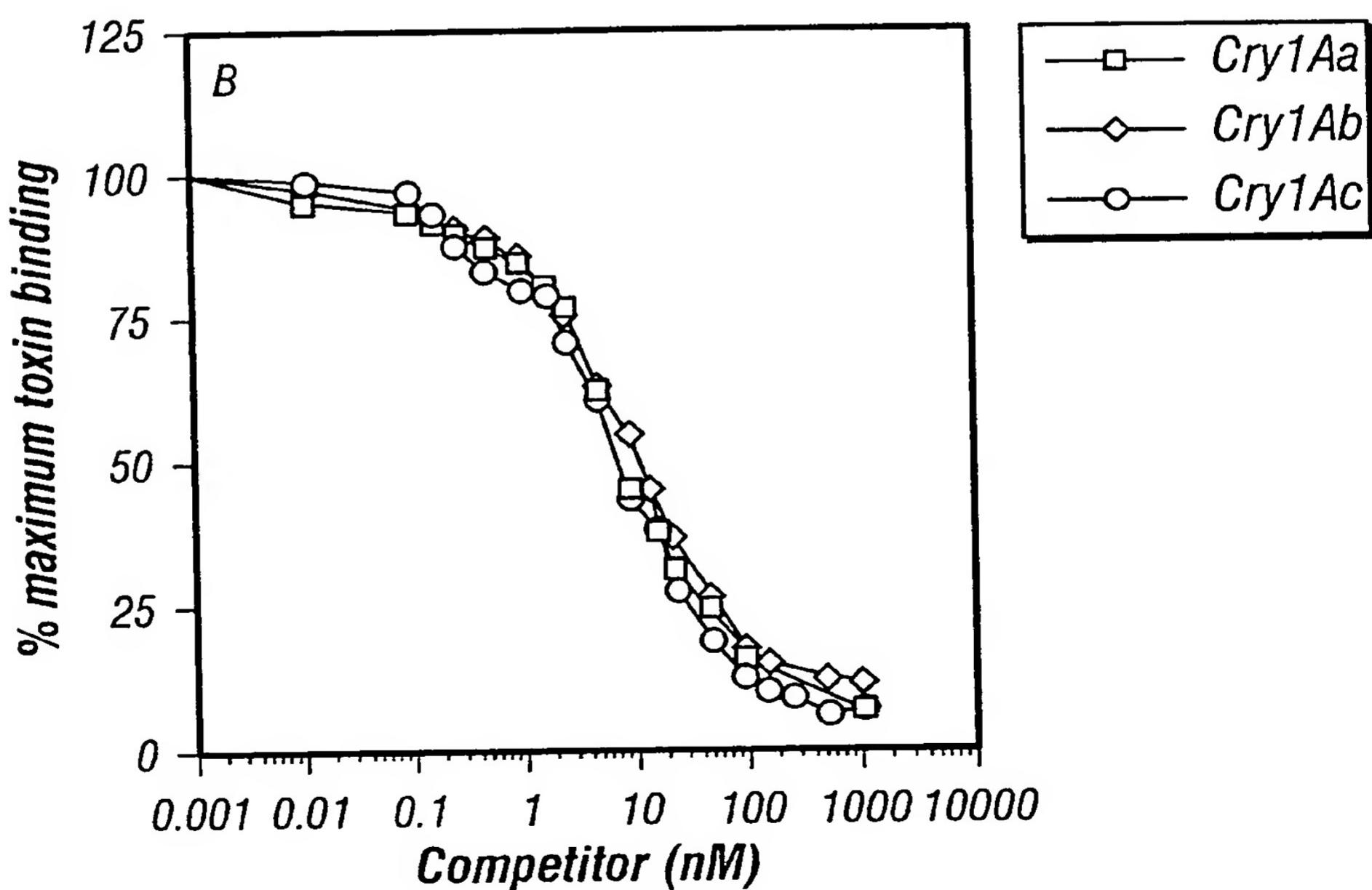


FIG. 3B

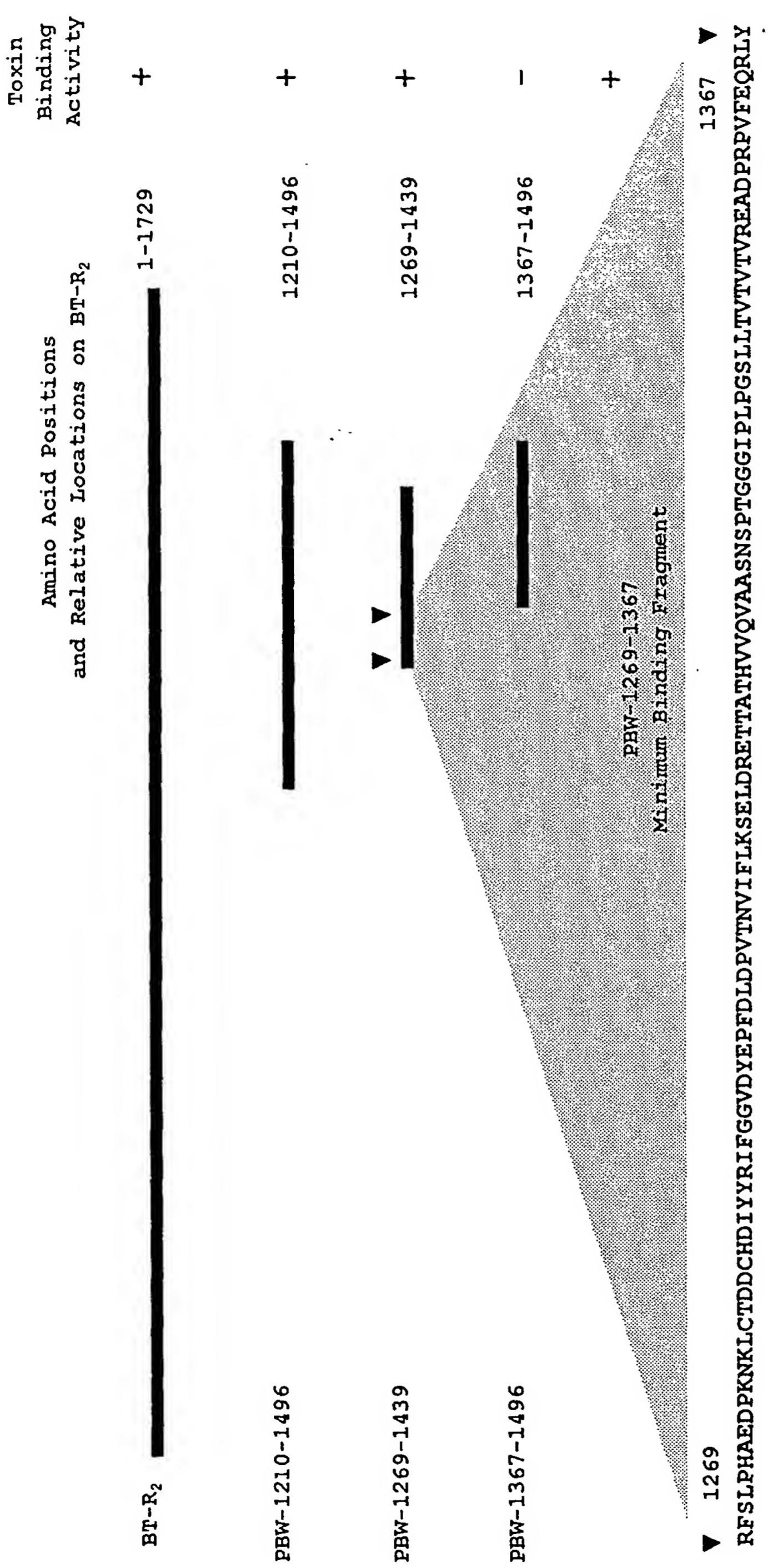


Figure 4

Figure 5A

1	M G V D V R I L A T L L L I Y - A E T V L A Q E - - - R C G F M V - A I P R P	B.mori BTR175
1	M A V D V R I - A A F L L V F I A P A V L A Q E - - - R C G Y M T - A I P R L	THW BTR1
1	M A G D A C I L V T V L L T F - A T S V F G Q E T T S S R C Y Y M T D A I P R E	PBW BTR2
35	P R P D - L P E L D F E G Q T W S Q R P L I P A A D R E D V C M D G - Y H A M T	B.mori BTR175
35	P R P D N L P V L N F E G Q T W S Q R P L L P A P E R D D L C M D A - Y H V I T	THW BTR1
40	P K P D D L P D L E W T G - G W T D W P L I P A E P R D D V C I N G W Y P Q L T	PBW BTR2
73	P T - Y G T Q I I Y M E E E I E G E V P I A K L N Y R G P N V P Y I E P A F L S	B.mori BTR175
74	A N - L G T Q V I Y M D E E I E D E I T I A I L N Y N G P S T P F I E L P F L S	THW BTR1
79	S T S L G T I I I H M E E E I E G D V A I A K L N Y D G S G T P E I V Q P M V I	PBW BTR2
112	G S F N L L V P V I R R I P D S N G E W H L I I T Q R Q D Y E T P G M Q Q Y V F	B.mori BTR175
113	G S Y N L L M P V I R R V - - D N G E W H L I I T Q R Q H Y E L P G M Q Q Y M F	THW BTR1
119	G S S N L L S P E I R - - N E N G A W Y L Y I T N R Q D Y E T P T M R R Y T F	PBW BTR2
152	N I R I D G E T L V A G V S L L I V N I D D N A P I I Q A L E P C Q V D E L G E	B.mori BTR175
151	N V R V D G Q S L V A G V S L A I V N I D D N A P I I Q N F E P C R V P E L G E	THW BTR1
156	D V R V P D E T R A A R V S L S I E N I D D N D P I V R V L D A C Q V P E L G E	PBW BTR2
192	A R L T E C V Y V V T D A D G R I S T Q F M Q F R I D S D R G D D K I F Y I Q G	B.mori BTR175
191	P G L T E C T Y Q V S D A D G R I S T E F M T F R I D S V R G D E E T F Y I E R	THW BTR1
196	P R L T D C V Y Q V S D E D G R L S I E P M T F R L T S D R E D V Q I F Y V E P	PBW BTR2
232	A N I P G E W I R M T M T V G I N E P L N F E T N P L H I F S V T A L D S L P N	B.mori BTR175
231	T N I P N Q W M W L N M T I G V N T S L N F V T S P L H I F S V T A L D S L P N	THW BTR1
236	A H I T G D W F N M Q I T I G I L S A L N F E S N P L H I F Q I T A L D S W P N	PBW BTR2
272	T H T V T L M V Q V E N V E H R P P R W V E I F A V Q Q F D E K T A Q S F P V R	B.mori BTR175
271	T H T V T M M V Q V A N V N S R P P R W L E I F A V Q Q F E E K S Y Q N F T V R	THW BTR1
276	N H T V T V M V Q V Q N V E H R P P R W M E I F A V Q Q F D E M T E Q Q F Q V R	PBW BTR2
312	A I D G D T G I N K P I H Y R L E T A E E D T F F H I R T I E G G R S G A I L Y	B.mori BTR175
311	A I D G D T E I N M P I N Y R L I T N E E D T F F S I E A L P G G K S G A V F L	THW BTR1
316	A I D G D T G I G K A I H Y T L E T D E E E D L F F I E T L P G G H D G A I F S	PBW BTR2
352	V D P I D R D T L Q R E V F Q L S I I A Y K Y D N E S S A T A A N V V I I V N D	B.mori BTR175
351	V S P I D R D T L Q R E V F P L T I V A Y K Y D E E A F S T S T N V V I I V T D	THW BTR1
356	T A M I D V D R L R R D V F R L S L V A Y K Y D N V S F A T P T P V V I I V N D	PBW BTR2
392	I N D Q R P E P L F K E Y R L N I M E E T A L T L N F D Q E F G F H D R D L G Q	B.mori BTR175
391	I N D Q R P E P I H K E Y R L A I M E E T P L T L N F D K E F G F H D K D L G Q	THW BTR1
396	I N N K K P Q P L Q D E Y T I S I M E E T P L S L N F A E L F G F Y D E D L - I	PBW BTR2
432	N A Q Y T V R L E S D Y P A D A A K A F Y I A P E V G Y Q R Q T F I M G T A N H	B.mori BTR175
431	N A Q Y T V R L E S V D P P G A A E A F Y I A P E V G Y Q R Q T F I M G T L N H	THW BTR1
435	Y A Q S L V E I Q G E N P P G V E Q A F Y I A P T A G F Q N Q T F A I G T Q D H	PBW BTR2
472	K M L D Y E - V P E F Q R I R L R V I A T D M D N E E H V G V A Y V Y I N L I N	B.mori BTR175
471	S M L D Y E - V P E F Q S I T I R V V A T D N N D T R H V G V A L V H I D L I N	THW BTR1
475	R M L D Y E D V P - F Q N I K L K V I A T D R D N T N F T G V A E V N V N L I N	PBW BTR2
511	W N D E E P I F E H S V Q N V S F K E T E G K G F F V A N V R A H D R D I D D R	B.mori BTR175
510	W N D E Q P I F E H A V Q T V T F D E T E G E G F F V A K A V A H D R D I G D V	THW BTR1
514	W N D E E P I F E E D Q L V V K F K E T V P K D Y H V G R L R A H D R D I G D S	PBW BTR2
551	V E H T L M G N A N N Y L S I D K D T G D I H V T Q D D F F D Y H R Q S E L F V	B.mori BTR175
550	V E H T L L G N A V N F L T I D K L T G D I R V S A N D S F N Y H R E S E L F V	THW BTR1
554	V V H S I L G N A N T F L R I D E E T G D I Y V A I D D A F D Y H R Q N E F N I	PBW BTR2

Figure 5B

591	Q V R A D D T L G E P	- - F H T A T S Q L L I H L E D I	I N N T P P T L R L P R G	B.mori BTR175
590	Q V R A T D T L G E P	- - F H T A T S Q L V I R L N D I	I N N T P P T L R L P R G	THW BTR1
594	Q V R A Q D T M S E P E S R H T A A A Q L V I E L E D V	V N N T P P T L R L P R V	PBW BTR2	
629	S P N V E E N V P E G Y I I T S E I R A T D P D T T A E L R F E I D W T T S Y A	B.mori BTR175		
628	S P Q V E E N V P D G H V I T Q E L R A T D P D T T A D L R F E I N W D T S F A	THW BTR1		
634	S P S V E E N V P E G F E I N R E I T A T D P D T T A Y L Q F E I D W D T S F A	PBW BTR2		
669	T K Q G R E A N P I E F H N C V E I E T I Y P A I N N R G S A I G R L V V K K I	B.mori BTR175		
668	T K Q G R Q A N P D E F R N C V E I E T I F P E I N N R G L A I G R V V A R E I	THW BTR1		
674	T K Q G R D T N P I E F H G C V D I E T I F P N P A D T R E A V G R V V A K G I	PBW BTR2		
709	R E N V T I D Y E E F E M L Y L T V R V R D L N T V I G D D Y D E S T F T I T I	B.mori BTR175		
708	R H N V T I D Y E E F E V L S L T V R V R D L N T V Y G D D Y D E S M L T I T I	THW BTR1		
714	R H N V T I H F E E F E F L Y L T V R V R D L H T D D G R D Y D E S T F T V I I	PBW BTR2		
749	I D M N D N P P I W V P G T T L E Q S L R V R E M S D A G V V I G T L T A T D I D	B.mori BTR175		
748	I D M N D N A P V W V E G T T L E Q N F R V R E M S A G G L V V G S V R A D D I D	THW BTR1		
754	I D M N D N W P I W A S G F L N Q T F S I R E R S S T G V V I G S V L A T D I D	PBW BTR2		
789	G P L Y N Q V R Y T M K A N E G T P E N L L M I D F Y T G Q I T V K T S G A I D	B.mori BTR175		
788	G P L Y N Q V R Y T I F P R E D T D K D L I M I D F L T G Q I S V N T S G A I D	THW BTR1		
794	G P L Y N Q V R Y T I I P Q E D T P E G L V Q I H F V T G Q I T V D E N G A I D	PBW BTR2		
829	A D V P R R Y N L Y Y T V V A T D R C Y A E D P D D C P D D P T Y W E T P G Q V	B.mori BTR175		
828	A D T P P R F H L Y Y T V V A S D R C S T E D P A D C P P D P T Y W E T E G N I	THW BTR1		
834	A D I P P R W H L N Y T V I A S D K C S E E N E E N C P P D P V F W D T L R D N	PBW BTR2		
869	V I Q I I D T T N N K I P Q P E T D Q F K A V V Y I Y E D A V S G D E V V K V I G	B.mori BTR175		
868	T I H I T D T T N N K V P Q A E T T K F D T V V Y I Y E N A T H L D E V V T L I A	THW BTR1		
874	V I N I V D I T N N K V P A A D L S R F N E T V Y I Y E N A P D F T N V V K I Y S	PBW BTR2		
909	S D L D R D D I Y H T I R Y Q I N Y A V N P R L R D F F A V D P D T G R V Y V Y	B.mori BTR175		
908	S D L D R D E I Y H T V S Y V I N Y A V N P R L M N F F S V N R E T G L V Y V D	THW BTR1		
914	I D E D R D E I Y H T V R Y Q I N Y A V N Q R L R D F F A I D L D S G Q V Y V	- PBW BTR2		
949	Y T T D - - E V L D R D G D E P Q H R I F F N L I D N F F Q Q G D G N R N Q N	B.mori BTR175		
948	Y E T Q G S G E V L D R D G D E P T H R I F F N L I D N F M G E G E G N R N Q N	THW BTR1		
953	- - E N T N N E L L D R D R G E D Q H R I F I N L I D N F Y S E G D G N R N V N	PBW BTR2		
986	D A E V L V V L L D V V N D N A P E L P E P D E L S W S V S E S L T K G T R L Q P	B.mori BTR175		
988	D T E V L V I L L D V V N D N A P E L P P P S E L S W T I S E N L K Q G V R L E P	THW BTR1		
991	T T E V L V I L L D E V N D N A P E L P T P E E L S W S I S E D L Q E G I T L D G	PBW BTR2		
1026	H - - I Y A P D R D E P D T D N S R V G Y A I I I S L T I A N R E I E - V P E L	B.mori BTR175		
1028	H - - I F A P D R D E P D T D N S R V G Y E I L N L S - T E R D I E - V P E L	THW BTR1		
1031	E S D V I Y A P D I D K E D T P N S H V G Y A I I L A M T V T N R D L D T V P R L	PBW BTR2		
1062	F T M I Q I Q N V T G E L E T A M D L R G Y W G T Y A I I H I K A Y D H G I P Q Q	B.mori BTR175		
1063	F V M I Q I A N V T G E L E T A M D L K G Y W G T Y A I I H I R A F D H G I P Q Q	THW BTR1		
1071	L N M L S P N N V T G F L Q T A M P L R G Y W G T Y D I S V L A F D H G I P Q Q	PBW BTR2		
1102	M S - N E T Y E L V I R P Y N F H A P V F V F P K H G A T L R L A R E R A V V V N	B.mori BTR175		
1102	M S M N E T Y E L I I H P F N Y Y A P E F V F P T N D A V I R L A R E R A V I N	THW BTR1		
1111	I S - H E V Y E L E I R P Y N Y N P P Q F V F P E S G T I L R L A L E R A V V N	PBW BTR2		
1141	G L L A T V D G E F L N R I V A T D E D G L H A G Q V A F E V V V G D T E A V D Y	B.mori BTR175		
1142	G V L A T V N G E F L E R I S A T D P D G L H A G V V T F Q V V V G D E E S Q R Y	THW BTR1		
1150	N V L S L V N G D P L D R I Q A I D D D G L D A G V V T F D I V G D A D A S N Y	PBW BTR2		

Figure 5C

1181	F	H	I	V	N	D	G	E	N	S	G	T	L	M	L	K	Q	L	F	P	E	D	I	R	E	F	E	V	T	I	R	A	T	D	G	G	T	E	P	R	B.mori	BTR175	
1182	F	Q	V	V	N	D	G	E	N	L	G	S	L	R	L	L	Q	A	V	P	E	E	I	R	E	F	R	I	T	I	R	A	T	D	Q	G	T	D	P	G	THW	BTR1	
1190	F	R	V	N	N	D	G	D	S	F	G	T	L	L	L	T	Q	A	L	P	E	E	G	K	E	F	E	V	T	I	R	A	T	D	G	G	T	E	P	R	PBW	BTR2	
1221	P	L	S	T	D	C	T	F	S	V	V	F	V	P	I	Q	G	E	P	I	F	P	T	S	T	H	T	V	A	F	I	E	K	E	A	G	L	L	E	R	B.mori	BTR175	
1222	P	L	S	T	D	M	T	F	R	V	V	F	V	P	T	Q	G	E	P	R	F	A	S	E	H	A	V	A	F	I	E	K	S	A	G	M	E	E	S	THW	BTR1		
1230	S	Y	S	T	D	S	T	I	T	V	L	F	V	P	T	L	G	D	P	I	F	Q	D	N	T	Y	S	V	A	F	E	K	E	V	G	L	T	E	R	PBW	BTR2		
1261	H	E	L	P	R	A	E	D	R	K	N	H	L	C	S	D	D	C	H	N	I	Y	Y	R	I	I	D	G	N	N	D	G	H	F	G	L	D	E	T	T	B.mori	BTR175	
1262	H	Q	L	P	L	A	Q	D	I	K	N	H	L	C	E	D	D	C	H	S	I	Y	Y	R	I	I	D	G	N	S	E	G	H	F	G	L	D	P	V	R	THW	BTR1	
1270	F	S	L	P	H	A	E	D	P	K	N	K	L	C	T	D	D	C	H	D	I	Y	Y	R	I	F	G	G	V	D	Y	E	P	F	D	L	D	P	V	T	PBW	BTR2	
1301	N	V	L	F	L	V	K	E	L	D	R	S	V	S	E	T	Y	T	L	T	I	A	A	S	N	S	P	T	G	G	-	I	A	L	T	S	T	I	-	T	B.mori	BTR175	
1302	N	R	L	F	L	K	K	E	L	I	R	Q	S	A	S	H	T	L	Q	V	A	A	S	N	S	P	D	G	G	-	I	P	L	P	A	S	I	L	T	THW	BTR1		
1310	N	V	I	F	L	K	S	E	L	D	R	E	T	T	A	T	H	V	V	Q	V	A	A	S	N	S	P	T	G	G	I	P	L	P	G	S	L	L	T	PBW	BTR2		
1339	I	T	V	N	V	R	E	A	D	P	Q	P	Y	F	V	R	D	D	L	Y	T	A	G	I	S	T	S	I	N	R	E	L	L	I	L	Q	A	T	H	B.mori	BTR175		
1341	V	T	V	T	V	R	E	A	D	P	R	P	V	F	V	R	E	L	Y	T	A	G	I	S	T	A	D	S	I	G	R	E	L	L	R	L	H	A	T	Q	THW	BTR1	
1350	V	T	V	T	V	R	E	A	D	P	R	P	V	F	E	Q	R	L	Y	T	A	G	I	S	T	S	D	N	I	N	R	E	L	L	T	V	R	A	T	H	PBW	BTR2	
1379	S	E	N	A	P	I	I	Y	T	I	D	W	S	T	M	V	T	D	P	T	L	A	S	V	R	E	T	A	F	I	L	N	P	H	T	G	V	L	T	L	B.mori	BTR175	
1381	S	E	G	S	A	I	T	Y	A	I	I	D	Y	D	T	M	V	V	D	P	S	L	E	A	V	R	Q	S	A	F	V	L	N	A	Q	T	G	V	L	T	L	THW	BTR1
1390	S	E	N	A	Q	L	T	Y	T	I	E	D	G	S	M	A	V	D	S	T	L	E	A	V	K	D	S	A	F	H	L	N	A	Q	T	G	V	L	I	L	PBW	BTR2	
1419	N	I	Q	P	T	A	S	M	H	G	M	F	E	F	Q	V	V	A	T	D	P	A	G	Y	S	D	R	A	N	V	K	I	Y	L	I	S	T	R	N	R	B.mori	BTR175	
1421	N	I	Q	P	T	A	T	M	H	G	L	F	K	F	E	V	T	T	A	T	D	T	A	G	A	Q	D	R	T	D	V	T	V	Y	V	V	S	S	Q	N	R	THW	BTR1
1430	R	I	Q	P	T	A	S	M	Q	G	M	F	E	F	N	V	I	A	T	D	P	D	E	K	T	D	T	A	E	V	K	V	Y	L	I	S	S	Q	N	R	PBW	BTR2	
1459	V	F	F	L	F	V	N	T	L	E	Q	V	E	Q	N	T	D	F	I	A	Q	T	F	S	A	G	F	E	M	T	C	N	I	D	Q	V	V	P	A	T	B.mori	BTR175	
1461	V	Y	F	V	F	V	N	T	L	Q	Q	V	E	D	N	R	D	F	I	A	D	T	F	S	A	G	F	N	M	T	C	N	I	D	Q	V	V	P	A	N	THW	BTR1	
1470	V	S	F	I	F	L	N	D	V	E	T	V	E	S	N	R	D	F	I	A	E	T	F	S	V	G	F	N	M	T	C	N	I	D	Q	V	L	P	G	T	PBW	BTR2	
1499	D	A	-	S	G	V	I	M	N	G	I	T	E	V	R	G	H	F	I	R	D	N	V	P	V	P	A	D	E	I	E	T	L	R	G	D	M	V	L	L	B.mori	BTR175	
1501	D	P	V	T	G	V	A	L	E	H	S	T	Q	M	R	G	H	F	I	R	D	N	V	P	V	L	A	D	E	I	E	Q	I	R	S	D	L	V	L	L	THW	BTR1	
1510	N	D	-	A	G	V	I	Q	E	A	M	A	E	V	H	A	H	F	H	I	Q	D	N	I	P	V	S	A	D	S	I	E	E	L	R	S	D	T	Q	L	L	PBW	BTR2
1538	T	A	I	Q	S	T	L	A	T	R	L	L	V	L	R	D	L	F	T	D	T	S	P	A	-	P	D	A	G	S	A	A	V	L	Y	A	L	A	V	L	B.mori	BTR175	
1541	S	S	I	Q	T	T	L	A	R	S	L	V	L	Q	D	L	L	T	N	S	S	P	D	-	S	A	P	D	S	S	L	T	V	Y	V	L	A	S	L	THW	BTR1		
1549	R	S	V	Q	G	V	L	N	Q	R	L	L	V	L	N	D	L	V	T	G	V	S	P	D	L	G	T	A	G	V	Q	I	T	I	Y	V	L	A	G	L	PBW	BTR2	
1577	S	A	L	L	A	A	L	C	L	L	L	V	I	F	I	I	R	T	K	K	L	N	R	R	L	E	A	L	T	V	K	K	Y	G	S	V	D	S	G	B.mori	BTR175		
1580	S	A	V	L	G	F	M	C	L	V	L	L	L	T	F	I	I	R	T	R	A	L	N	R	R	L	E	A	L	S	M	T	K	Y									